



New BIA BOGS Website

BY MARGARET HERZOG

The entire BIA website has been updated with a better layout and more features. To get to the BIA BOGS website, just enter: *Geospatial* into the search box on the top right of the BIA home page, which will take you to: <https://www.bia.gov/bia/ots/geospatial>. Please let us know what you think of the new look or ideas for improvement.

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ArcMap and ArcGIS Pro Updates

BY DONNA OFFERSON

During the Esri User Conference 2017, Esri announced that they will eventually be replacing ArcMap with ArcGIS Pro; however, ArcMap is not going away any time soon. Esri plans to continue to support past and future releases of ArcMap, but their focus will be on "making ArcGIS Pro the world's best desktop GIS."

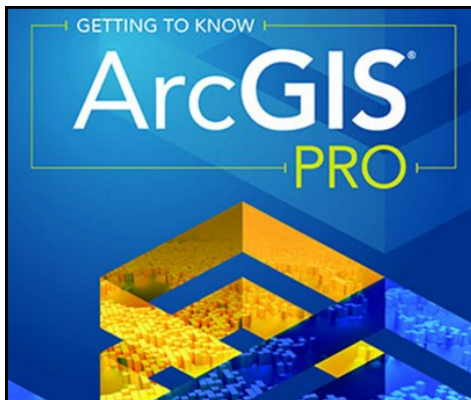


Image: ArcGIS Pro graphic. Source: Esri.

ArcMap still has some capabilities that are not currently available in ArcGIS Pro. The good news is you can run ArcMap and ArcPro at the same time on your computer and have access to all of the capabilities both applications provide. This also means you can use ArcGIS Pro and ArcMap to access and work with local data and online services.

If you would like information on migrating to ArcGIS Pro, please go to: www.esri.com/en/arcgis/products/arcgis-pro/migrate. If you need additional support, please contact the Geospatial Support Help Desk at 1-877-293-9494 or geospatial@bia.gov.

Source: ArcGIS Blog – ArcGIS Pro Tips: Top 10 Questions from the 2017 User Conference and SRI Overview Migrating to ArcGIS Pro.

Esri User Conference 2017 Wrap-Up

BY MARGARET HERZOG

More than 150 BIA and tribal GIS staff attended the 2017 Esri User Conference July 10-14 in San Diego. Five *GIS for Tribal Resilience* events were cosponsored by the BIA Branch of Geospatial Support (BOGS) and the Tribal Resilience Program (TRP). The presentations, along with regional maps and handouts, are available at: <https://www.bia.gov/bia/ots/tribal-resilience-program/presentations>. Other Tribal Sessions were concentrated on Tuesday and showcased a wide variety of GIS applications from across Indian Country. Most of these *Paper Presentations* can be found by searching for the key word "Tribal" at: <http://proceedings.esri.com/library/userconf/proc17/>. On Wednesday, Gareth Couch of Tribal GIS® demonstrated how tribal communities are leveraging GIS and related technologies to develop sustainably while drawing from a rich past.

Couldn't attend? You can still see User Conference 2017 technical sessions on-demand at: <http://arcg.is/2xjoZaT>. And if you weren't able to visit the BIA booth in person, you can always email the BOGS help desk at geospatial@bia.gov for follow-up.

BOGS would like to congratulate the 2017 *Tribal Story Map Challenge* winners that were announced during the map gallery reception at the conference.

Winners included Colville Confederated Tribes - BAER Cedar Fire Story Map; Agua Caliente Band of Cahuilla Indian Canyons; and Samish Indian Nation - Marine Debris Clean Up in Samish Traditional Territory. The winning entries can be viewed at: <http://arcg.is/2gMSuKT>.



Image: From left to right, Brad Tatham, Heston Smith and Steve Mesa at the Esri User Conference 2017.

Hexagon Software Now Available

BY STEVE MESA

BOGS is excited to announce that the U.S. Geological Survey awarded Hexagon US Federal, formerly Intergraph Government Solutions, a five-year blanket purchase agreement to provide several federal bureaus and federally recognized tribes access to a full suite of geospatial products and solutions at a reduced cost.

The agreement provides for the acquisition of Hexagon software and related software maintenance. Hexagon geospatial applications include image classification, spatial modeling, point cloud extraction, photogrammetry and radar analysis, as well as Hexagon's cloud-based exploitation solutions. The product suite also includes ERDAS IMAGINE, a geospatial data authoring system that allows organizations to save time and money, leverage existing data investments, and improve image analysis capabilities with one software application.

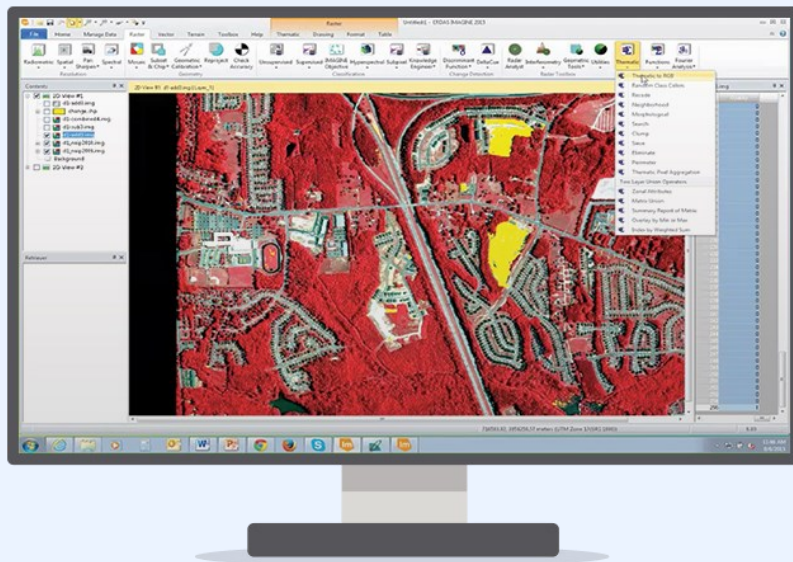


Image: ERDAS IMAGINE Screenshot. Source: Hexagon Geospatial.

Organizations within the Department of Interior that will have access to the technology include the Bureau of Indian Affairs, federally recognized tribal employees and contracted or compacted tribes (under Public Law 93-638), the Bureau of Land Management, the Bureau of Reclamation, the National Park Service, the U.S. Fish and Wildlife Service, the Office of Surface Mining Reclamation and Reinforcement, and the U.S. Geological Survey.

"We are thrilled about how ERDAS IMAGINE will benefit tribal GIS professionals in accomplishing their mission," said Chad Wallace, BOGS Chief. "Hexagon US Federal is offering these products and services to DOI/BOGS at a reduced cost that will provide actionable GIS data to tribes and their partners."

2018 Esri Federal GIS Conference

BY STEVE MESA

Register now for the 2018 Esri Federal GIS Conference to be held March 20-21, 2018, in Washington, D.C. This annual conference will explore groundbreaking ways government leaders are using the latest GIS technology to accomplish their mission. There is no cost for the conference for federal employees or federally recognized tribal members to attend. (Traveling expenses, meals and lodging are not included.) To register, go to: <http://www.esri.com/events/federal/registration>.

New Web Application—TAAMS Map Viewer

BY KATIE LEWERS

The BOGS development group recently completed a new geospatial viewer called the TAAMS Map Viewer. This map viewer resides inside BIA's Trust Asset and Accounting Management System (TAAMS) and allows TAAMS users to access a map viewer.

The TAAMS Map Viewer has been added to the TAAMS results page for a title tract search. This map viewer allows the user to easily access an interactive map displaying the details for the tract. The user can zoom, measure, and view other nearby tracts. The map viewer also allows the user to generate a file to save or print the map with the tract details. This viewer is only available to TAAMS authorized users inside the BIA network.

What is TAAMS? TAAMS stands for Trust Asset and Accounting Management System. TAAMS is the BIA system of record for all realty information including land ownership. Originally, TAAMS was a series of databases full of land descriptions without any mapping component.

How does non-spatial data become spatial? TAAMS provides the legal descriptions, which the Division of Land Titles and Records (DLTR) group converts into spatial data. The viewer displays that spatial data. DLTR has a lengthy process to convert and verify the legal descriptions. The viewer itself does not pull directly from TAAMS but from a spatial database created using the non-spatial TAAMS data.

Feedback on GPS Class

BY ROBIN LOVATO

Introduction to GPS using ArcPad was one of the most requested additions to the BOGS course list and classes have been filling up quickly. BOGS recently held a class for the Cow Creek Band of Umpqua Tribe of Indians and received some very positive feedback! See the back page for more information about the free training classes offered by BOGS.

"I would just like to say that I really enjoyed the recent GPS course taught here at Cow Creek Umpqua Tribe last week and have received several similar comments from others in the class. This course will really help us in the future with our GPS efforts. Thank you!!"

Brian Mladenich, GISP
GIS Operations Manager, Cow Creek Umpqua Tribe



Image: The students and trainers from the most recent GPS Class in Lakewood, CO.

BOGS Fire Season Updates

BY BRYCE HERBERT

Collector App for ArcGIS

The Collector app for ArcGIS has been an invaluable tool for the BIA during fire season. The app, which allows users to collect and update data in the field, was used extensively in July and August of 2017 by field crews from several different agencies to analyze the Hilltop Fire on the San Carlos Reservation in Arizona. The crew's main objective was to verify the burned area reflectance classification (BARC) model-generated data by examining all burned and non-burned areas within the fire perimeter. Collector helped build a good working partnership between the field crew and an in-office GIS analyst due to the app's ability to gather and update data.

Current Conditions Maps

The Current Conditions Maps that are part of the Spatial Fire Management Plan (SFMP) have been extremely useful for tribes that have completed implementation of the fire management plan. The maps include information such as existing vegetation, fire behavior and fuels models, fire regimes, and fire history. Having this data available helps fire management officers make important decisions that could affect both valuable natural resources and public safety. BOGS recently finalized the Current Conditions and Strategic Planning Maps for the Eastern Band of Cherokee Indians in North Carolina.

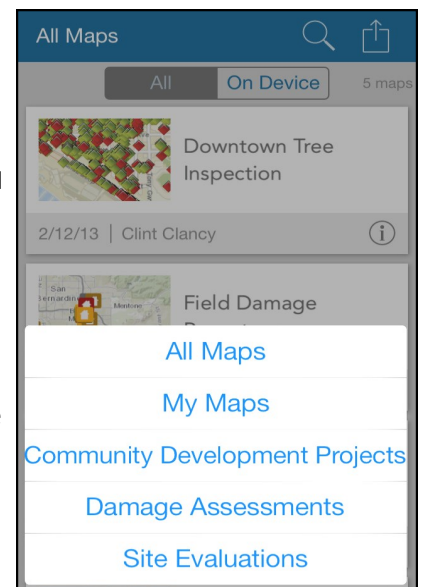


Image: Screenshot of the Collector app.
Source: Esri.



Fire Season on Indian Lands

The 2017 fire season has been very eventful on Indian lands. There have been a number of large fires that burned substantial amounts of land, including the Nena Springs Fire on the Warm Springs Reservation in Oregon. The Nena Springs Fire burned a whopping 68,135 acres, which is equal to 106.4 square miles! Since there are still many active fires that are not contained and a couple of months left in prime fire season, it is difficult to provide an accurate number of burned acres on Indian land.

Image: A firefighter at the Nena Springs fire in Oregon.
Source: Oregon Department of Forestry.

DigitalGlobe Resources

BY STEVE MESA

If you are having problems logging into DigitalGlobe, the provider of commercial high-resolution satellite imagery for federal employees and federally recognized tribes, contact DigitalGlobe at deftechsupport@digitalglobe.com or 1-866-810-2297. You may also contact Steve Mesa, Program Analyst/GIS Specialist, at steven.mesa@bia.gov or 720-484-3230.

For EnhancedView Web Hosting Service users, you can access the DigitalGlobe Cloud Services User Guide at: <https://dgcportal.readme.io/docs/ev-whs-user-guide>. It is also available for download here: <https://evwhs.digitalglobe.com/>.

OCTOBER 2017 — MARCH 2018

GEOSPATIAL TRAINING SCHEDULE

BOGS provides geospatial training for employees of federally recognized tribal entities and to Office of Trust Services (OTS) supported functions within the BIA. OTS supported functions includes GIS related activities under the Divisions of Real Estate Services, Land Titles and Records, Probate, Natural Resources, Forestry and Wildland Fire Management, and Water and Power. All slots not filled one month before the beginning of the course will then be open to and filled on a first come, first served basis by employees of federally recognized tribal entities and with employees of the BIA from any office.

There is no tuition cost for this training. Training equipment and training materials are provided by BOGS. Expenses for transportation, hotel accommodations, and meals are the responsibility of the participant's organization. Training courses are available at the BOGS Lakewood Training Facility in Lakewood, Colorado, and at various field locations per request and availability.

Principles of GIS (Beginner)			
Tribe/Office	Training Location	Region	Date
BIA Eastern Region	Cherokee, NC	Eastern	Oct 10–12
Alamo Navajo School Board	Alamo, NM	Navajo	Oct 17–20
Navajo Division of Transportation	Window Rock, AZ	Navajo	Oct 23–26
Ute Tribe of Uintah & Ouray Reservation	Duchesne, UT	Western	Oct 24–27
Tohono O'dham Nation	Sells, AZ	Western	Nov 6–9
Lakewood Training Facility	Lakewood, CO	–	Nov 13–16
Habematolel Pomo of Upper Lake	Upper Lake, CA	Pacific	Dec 5–8
Seminole Tribe of Florida	Hollywood, FL	Eastern	Jan 8–11
Twenty-Nine Palms Band of Mission Indians of California	Cochella, CA	Pacific	Jan 16–19
Viejas Band of Kumeyaay Indians	Alpine, CA	Pacific	Jan 22–25
Lakewood Training Facility	Lakewood, CO	–	Jan 22–25
Lakewood Training Facility	Lakewood, CO	–	Jan 29–Feb 1
Owens Valley Indian Water Commission	Bishop, CA	Pacific	Mar 5–8
Introduction to GPS using ArcPad (Beginner)			
Tribe/Office	Training Location	Region	Date
Bay Mills Indian Community	Brimley, MI	Midwest	Oct 3–4
Lakewood Training Facility	Lakewood, CO	–	Nov 1–2
Lakewood Training Facility	Lakewood, CO	–	Nov 6–7
Mississippi Band of Choctaw Indians	Choctaw, MS	Eastern	Nov 14–15
Navajo Division of Transportation	Window Rock, AZ	Navajo	Nov 30–Dec 1
BIA Eastern Region	Washington, DC	Eastern	Feb 12–13
Owens Valley Indian Water Commission	Bishop, CA	Pacific	Mar 12–13
Introduction to Cartography* (Intermediate)			
Tribe/Office	Training Location	Region	Date
Navajo Division of Transportation	Window Rock, AZ	Navajo	Dec 4–7
Coyote Valley Band of Pomo Indians of California	Redwood Valley, CA	Pacific	Dec 11–14
Lakewood Training Facility	Lakewood, CO	–	Feb 5–8
Seminole Tribe of Florida	Hollywood, FL	Eastern	Mar 26–29

All courses are taught in ArcGIS version 10.4.1 and ArcPad 10.2 unless otherwise indicated.

* Indicates this course has a prerequisite.

Due to the high demand for training, please register early to help ensure placement in the requested course.

To register for a course, email or fax a completed and signed registration form to geospatial@bia.gov.

Visit the Geospatial Support website at <https://www.bia.gov/bia/ots/geospatial>, call the Geospatial Support Help Desk at 1-877-293-9494, or email geospatial@bia.gov for a copy of the latest training brochure, which includes a registration form, course descriptions, cancellation and absence policies, priority information, and other training policies.

BUREAU OF INDIAN AFFAIRS | DIVISION OF LAND TITLES AND RECORDS | BRANCH OF GEOSPATIAL SUPPORT

13922 Denver West Parkway, Building 54, Suite 300, Lakewood, CO 80401

Phone: 877.293.9494 (toll-free)

Fax: 303.231.5229

Email: geospatial@bia.gov

Background image
source: USGS Topo.

Website: <https://www.bia.gov/bia/ots/geospatial>